

CLAIMS

1. A power transmission comprising:
 - an input shaft;
 - an output means;
 - a first planetary gearset, a second planetary gearset, and a third
 - 5 planetary gearset, a member of said first planetary gearset being continuously connected with a member of said third planetary gearset and with said output means;
 - another member of said first planetary gearset being connected with a member of said second planetary gearset;
 - 10 another member of said second planetary gearset being continuously connected with said input shaft;
 - a further member of said second planetary gearset being connected with another member of said third planetary gearset;
 - a transmission housing including a first end wall, a second end
 - 15 wall, and an outer housing joining said first and second end walls, said housing and said planetary gearsets cooperating to define four spaces including a first space defined between said first end wall and said first planetary gearset, a second space defined between said second end wall and said third planetary gearset, a third space defined radially outward of said
 - 20 planetary gearsets and inward of said outer housing, a fourth space defined between said first and second planetary gearsets;
 - five selectively engageable torque-transmitting mechanisms operatively connected with said planetary gearsets including two torque-transmitting mechanisms being disposed in said first space and being
 - 25 operatively connected with members of said first planetary gearset;
 - one of said torque-transmitting mechanisms being disposed in a position selected from a group consisting said second space and said third space;

one of said torque-transmitting mechanisms being disposed in a
30 position selected from a group consisting of said first space, said third space,
and said fourth space;

one of said torque-transmitting mechanisms being disposed in a
position selected from a group consisting of said first space and said fourth
space; and

35 said torque-transmitting mechanisms being engaged in
combinations of two to establish six forward speed ratios and one reverse
speed ratio.

2. The power transmission defined in claim 1 further wherein:
said two torque-transmitting mechanisms disposed in said first
space both having servo-mechanisms with stationary pistons.

3. The power transmission defined in claim 1 further wherein:
at least three of said torque-transmitting mechanisms are disposed
within said first space.

4. The power transmission defined in claim 1 further wherein:
at least four of said torque-transmitting mechanisms are disposed
in said first space and one of said torque-transmitting mechanisms is disposed
in said third space.

5. The power transmission defined in claim 1 further wherein:
two of said torque-transmitting mechanisms are disposed in said
first space, two of said torque-transmitting mechanisms are disposed in said
third space, and one of said torque-transmitting mechanisms is disposed in
5 said second space.

6. The power transmission defined in claim 1 further wherein:

four of said torque-transmitting mechanisms are disposed in said first space and one of said torque-transmitting mechanisms is disposed in said second space.

7. The power transmission defined in claim 1 further wherein:

said first end wall has an extension portion on which friction members of two of said torque-transmitting mechanisms are rotatably disposed.

8. The power transmission defined in claim 1 further wherein:

three of said torque-transmitting mechanisms are disposed in said first space, one of said torque-transmitting mechanisms is disposed in said second space, and one of said torque-transmitting mechanisms has a servo-
5 mechanism disposed in said fourth space, and friction plates disposed in said third space.

9. The power transmission defined in claim 1 further wherein:

three of said torque-transmitting mechanisms are disposed in said first space and each of said three torque-transmitting mechanisms having stationary pistons, one of said torque-transmitting mechanisms being
5 disposed in said third space, and one of said torque-transmitting mechanisms having a servo-mechanism disposed in said second space and friction plates disposed in said third space.